

Amendments to the Claims:

The following Listing of Claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Currently amended) A multilayer optical composite comprising four or more layers including
a first non-adhesive optical layer having an index of refraction n_1 ,
an i^{th} non-adhesive optical layer having an index of refraction n_i greater than n_1 , and
a multilayer optical adhesive between the first layer and the i^{th} layer, wherein the indices of refraction of the layers of the multilayer optical adhesive increase between n_1 and n_i in the order of position from the first layer.

2. (Currently Amended) ~~The~~ A multilayer composite of claim 1 wherein the comprising four or more layers including
a first non-adhesive optical layer having an index of refraction n_1 ,
an i^{th} non-adhesive optical layer having an index of refraction n_i greater than n_1 , and
a multilayer optical adhesive comprises comprising at least three or more adhesive layers between the first layer and the i^{th} layer, wherein the indices of refraction of the layers of the multilayer optical adhesive increase between n_1 and n_i in the order of position from the first layer.

3. (Currently Amended) The composite of claim 1 consisting essentially of
the first layer with index of refraction n_1 ,
the i^{th} layer with index of refraction n_i , and
a multilayer optical adhesive consisting essentially of from 3 to 20 polymeric layers having indices of refraction monotonically changing between n_1 and n_i based on the position of the polymeric layer from the first layer.

4. (Original) The composite of claim 1 wherein the multilayer optical adhesive consists essentially of
a first adhesive layer adjacent to the first non-adhesive optical layer

an x^{th} adhesive layer adjacent to the i^{th} non-adhesive optical layer, and
 $x-2$ polymeric layers between the first adhesive layer and the x^{th} adhesive layer.

5. (Original) The composite of claim 4 wherein x is from 3 to 18.

6. (Cancelled)

7. (Currently Amended) The composite of claim ~~1~~2 wherein the multilayer optical adhesive comprises 10 or more layers each having an index of refraction between n_1 and n_i , and the difference between the refractive indices of any two adjacent layers is no greater than 0.02.

8. (Currently Amended) The composite of claim ~~1~~2 wherein the multilayer optical adhesive consists of 10 or more layers having monotonically varying indices of refraction between n_1 and n_i , and the difference between the refractive indices of any two adjacent layers is no greater than 0.02.

9. (Currently Amended) The composite of claim ~~1~~2 wherein
the multilayer optical adhesive comprises 5 or more layers,
the difference between n_1 and n_i is at least 0.2, and
the reflectivity of the composite is less than 0.0004.

10. (Currently Amended) The composite of claim ~~1~~2 wherein
the multilayer optical adhesive comprises 5 or more layers,
the difference between n_1 and n_i is at least 0.4, and
the reflectivity of the composite is less than 0.0004.

11. (Original) The composite of claim 10 wherein
the multilayer optical adhesive comprises 10 or more layers,
the difference between n_1 and n_i is at least 0.4, and
the reflectivity of the composite is less than 0.0002.

12. (Cancelled)

13. (Currently Amended) ~~The A multilayer composite of claim 12 comprising four or more layers including~~

 a first non-adhesive optical layer having an index of refraction n_1 ,
 an i^{th} non-adhesive optical layer having an index of refraction n_i greater than n_1 , and
 a multilayer optical adhesive between the first layer and the i^{th} layer, wherein the indices of refraction of the layers of the multilayer optical adhesive increase between n_1 and n_i in the order of position from the first layer, wherein the first layer and the i^{th} layer are non-adhesive optical component layers comprising material selected from an organic polymeric material and a glass material, and n_1 is below about 1.6 and n_i is greater than about 1.6.

14. (Currently Amended) The composite of claim ~~12~~13 wherein n_1 is below about 1.5 and n_i is greater than about 2.0.

15. (Currently Amended) The composite of claim ~~12~~13 wherein the difference in indices of refraction of the first layer and the i^{th} layer is at least 0.4, and the multilayer optical adhesive composite has 5 or more layers.

16. (Currently Amended) The composite of claim ~~12~~13 wherein the difference in indices of refraction of the first layer and the i^{th} layer is at least 0.5, and the multilayer optical adhesive composite has 10 or more layers.

17. (Currently Amended) The composite of claim ~~12~~ wherein
 the multilayer optical adhesive composite consists essentially of 4 or more adhesive layers,
 each layer of the multilayer optical adhesive comprises a blend of two common ingredients in different amounts that alter indices of refraction of the layers.

18. (Original) The composite of claim 17 wherein the common ingredients are a polymeric material and nanoparticles that alter the index of refraction of the polymeric material.

19. (Original) The composite of claim 17 wherein the common ingredients are two different polymeric materials.

20. (Currently Amended) The composite of claim ~~12~~13 wherein
the multilayer optical adhesive composite consists essentially of 4 or more adhesive layers,

each adhesive layer comprises copolymer comprising two common monomeric units in different amounts that alter indices of refraction of the layers.

21. (Currently Amended) ~~The composite of claim 1 wherein the multilayer optical composite is a~~ A touch screen display comprising a conductive layer and a multilayer composite comprising four or more layers including

a first non-adhesive optical layer having an index of refraction n_1 ,
an i^{th} non-adhesive optical layer having an index of refraction n_i greater than n_1 , and
a multilayer optical adhesive between the first layer and the i^{th} layer, wherein the indices of refraction of the layers of the multilayer optical adhesive increase between n_1 and n_i in the order of position from the first layer.

22. (Currently Amended) A multilayer optical article comprising
a first optical component having an index of refraction n_1 ,
a second optical component having an index of refraction n_i greater than n_1 , and
a multilayer optical adhesive between the first optical component and the second optical component to reduce interfacial reflection between the first optical component and the second optical component,

wherein the multilayer optical adhesive consists essentially of 5 to 15 adhesive layers having indices of refraction that ~~vary~~ increase monotonically between n_1 and n_i .

23. (Cancelled)

24. (Original) A multilayer optical adhesive comprising three or more layers comprising
a first adhesive layer having an index of refraction n_{a1} ,
a second adhesive layer having an index of refraction n_{ai} , and
a polymeric intermediate layer having an index of refraction between n_{a1} and n_{ai} .

25. (Original) The multilayer optical adhesive of claim 24 consisting essentially of from 3 to 20 adhesive layers arranged monotonically based on index of refraction.

26. (Original) A multilayer optical adhesive comprising 3 or more adhesive layers having indices of refraction that vary monotonically between the outermost adhesive layers.

27. (Original) The multilayer optical adhesive of claim 26 consisting essentially of from 5 to 20 adhesive layers having monotonically varying indices of refraction.

28. (Original) The multilayer optical adhesive of claim 26 consisting essentially of from 9 to 15 adhesive layers.

29. (Original) The multilayer optical adhesive of claim 26 consisting of from 5 to 20 adhesive layers having monotonically varying indices of refraction.

30. (Original) The multilayer optical adhesive of claim 26 consisting of from 9 to 15 adhesive layers having monotonically varying indices of refraction.

31. (Currently Amended) A method of reducing reflectivity between two optical layers, the method comprising
providing two optical layers, layer 1 having an index of refraction n_1 and layer i having an index of refraction n_i , greater than n_1 and which exhibit a reflectivity at an interface between the two optical layers,

providing two or more intermediate adhesive layers between layer n_1 and n_i , to form a multilayer optical composite,

wherein the indices of refraction of intermediate adhesive layers are between n_1 and n_i , they increase monotonically from layer 1 to layer i, and the reflectivity of the multilayer optical composite is less than the reflectivity at the interface between the two optical layers without the intermediate adhesive layers.

32. (Currently Amended) The method of claim 31 comprising providing a multilayer optical adhesive between layer n_1 and n_i , the multilayer optical adhesive comprising from 2 to 20 adhesive layers ~~having indices of refraction that vary monotonically between n_1 and n_i .~~

33. (Currently Amended) The method of claim 31 further comprising laminating layers of pressure sensitive adhesive together to form a multilayer optical adhesive which is used as the intermediate adhesive layers.

34. (Original) A method of producing a multilayer optical adhesive, the method comprising arranging three or more layers of polymeric material into a composite comprising

a first adhesive layer having an index of refraction n_{a1} ,

a second adhesive layer having an index of refraction n_{ai} , and

a polymeric intermediate layer having an index of refraction between n_{a1} and n_{ai} .

35. (Original) The method of claim 34 comprising arranging two or more polymeric intermediate layers between the first and second adhesive layers, each polymeric intermediate layer having an index of refraction between n_{a1} and n_{ai} .

36. (Original) The method of claim 35 comprising arranging from 3 to 20 polymeric intermediate layers between the first and second adhesive layers, the polymeric intermediate layers having indices of refraction that vary monotonically between n_{a1} and n_{ai} .

37. (Original) The method of claim 35 comprising arranging from 9 to 15 polymeric intermediate layers between the first and second adhesive layers, the polymeric intermediate layers having indices of refraction that vary monotonically between n_{a1} and n_{ai} .